1. **DESCRIPTION**

Viking 3% XMAX is a fluorine free concentrate consisting of hydrocarbon surfactants blended with various solvents, preservatives and stabilizers. It has been designed for use primarily in high expansion systems.

Viking 3% XMAX foam concentrate should be used at 3% of the solution volume (3 parts concentrate in 97 parts of water) in brackish, fresh or seawater.

**Features:**

- Tested and Listed with Viking VGH10000 Generators.
- Excellent firefighting on Class A and Class B hydrocarbon fires
- For use in high risk applications per applicable standards.

2. **LISTINGS AND APPROVALS**

- **UL Listed - GLKX.EX27844 Liquid Concentrates, High-expansion Foam**
  Underwriters Laboratories, UL 162 and UL 139

Refer to the UL Listing for systems and devices that are approved for use with this concentrate. Refer to the system and device data sheets from Viking, NFPA, and relevant local standards for correct system design.

- **EN 1568 - Part 1, Part 2 & Part 3**
  *Approval is in the name of the manufacturer. Contact Viking for further information.

3. **TECHNICAL DATA**

**Physical Data**

- **Appearance:** Clear yellowish liquid
- **Specific gravity at 68 °F (20 °C):** 1.02 +/- 0.01 g/ml
- **Viscosity at 68 °F (20 °C):** ≤ 50 mPas
- **pH:** 6.5 to 8.5
- **Freezing point:** 21 °F (-6 °C)
- **UL Listed storage temperature:** 35 °F (1.6 °C)
- **Suspended sediment (v/v):** Less than 0.2%

4. **ENVIRONMENTAL IMPACT**

Viking 3% XMAX is formulated using specially selected raw materials for their fire performance and their environmental profile. Viking 3% XMAX is biodegradable. The handling of foam concentrate or foam solution spills should be in accordance with local regulations. Sewage systems should have no processing issues with a 3% foam solution based on Viking 3% XMAX, but local sewage operators should be consulted in this respect. It is advisable to contain, collect and incinerate foam concentrate and solution. This product contains NO PFOS or PFOA. Viking 3% XMAX is formulated without the use of fluorinated surfactants. Full details will be found in the Safety Data Sheet (SDS).

5. **APPLICATION**

Viking 3% XMAX is intended for use on Class B hydrocarbon fuels such as oil, diesel, gasoline and aviation fuels as well as ordinary Class A combustibles. Viking 3% XMAX should be used with Viking High Expansion Generators where performance has been tested and documented. It is intended to be used as 3% concentrate.
6. PROPORTIONING

Viking 3% XMAX can easily be proportioned at the correct dilution using conventional equipment such as:
- Inline inductors
- Inline Balanced Pressure, proportioning systems (ILBP)
- Bladder tanks and ratio controllers
- Around the pump proportioning systems
- Water motor or turbine foam proportioners

Refer to the UL Listing for proportioning equipment approved for use with this concentrate.

7. FIRE PERFORMANCE & FOAMING

The fire performance of this product has been measured and documented according to “International Approvals” stated in this document. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average low expansion 9:1, average ¼ drainage time 11.00 minutes using UNI 86 test nozzle. Has been fire tested against EN 1568-1, -2, and -3. The fire performance have been tested and approved by independent laboratory.

9. STORAGE / SHELF LIFE

**WARNING:** Fluctuating environmental conditions such as temperature and sunlight can severely degrade foam concentrate.
- Do not expose to direct sunlight
- Store in climate controlled areas not subject to environmental fluctuations.
- Evaluate all storage containers for suitability based on expected environmental conditions.

Stored in original unbroken packaging the product will have a long shelf life. Shelf life in excess of 10 years will be found in temperate climates. As with all foams, shelf life will be dependent on storage temperatures and conditions. If the product is frozen during storage or transport, thawing will render the product completely usable. Synthetic foam concentrates should only be stored in stainless steel or plastic containers. Since electrochemical corrosion can occur at joints between different metals when they are in contact with foam concentrate, only one type of metal should be used for pipelines, fittings, pumps and tanks employed in the storage of foam concentrates. We recommend following our guidelines for storage and handling ensuring favorable storage conditions.
10. SCOPE OF DELIVERY
This product is supplied in 25 liter and 6.5 US gallon cans, 200 liter and 55 US gallon drums, 1000 liter and 265 US gallon IBC containers and in bulk on special request.

11. INSPECTIONS, TESTS AND MAINTENANCE
The foam concentrate should be tested annually. Refer to respective requirements, according to the relevant standards for Inspection, Testing and Maintenance such as NFPA11 or EN13565-2. If applicable, refer to FM Global Property Loss Prevention Datasheet 4-12 for specific test and commissioning criteria. In addition, the “Authority Having Jurisdiction” (AHJ) may have additional maintenance, testing and inspection requirements that must be followed.

12. DISPOSAL
At the end of use the product packaging should be disposed of via the national recycling system. Some IBC Tote containers may be part of a national collection scheme. Details will be attached to the IBC Tote if this service is available. Foam Concentrate should be disposed of according to local regulations.

13. AVAILABILITY
Please contact Viking for further information.
The product is available directly from Viking and official distributors only.

**EMEA: Viking SA**, ZI Haneboesch, L-4562 Differdange / Niederkorn, Tel.: +352 58 37 37 - 1, Fax: +352 38 37 36, vikinglux@viking-emea.com

**Americas: The Viking Corporation**, 210 N. Industrial Park Drive, Hastings, Michigan 49058, Toll free phone: (800) 968-9501

**APAC: The Viking Corporation (Far East) Pte. Ltd.**, 69 Tuas View Square, Westlink Techpark, Singapore 637621
Tel: (+65) 6 278 4061, Fax: (+65) 6 278 4609, Email: vikingsingapore@vikingcorp.com

14. GUARANTEE
For details of warranty, refer to Viking’s current list price schedule or contact Viking directly.

15. COMPATIBILITY
Contact Viking with questions regarding the compatibility of this product.